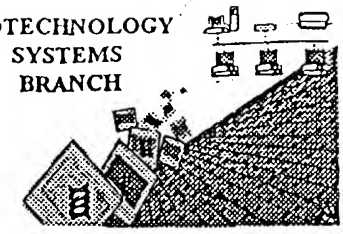
BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/714,079A
Source: IFW0
Date Processed by STIC: 7/15/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>, EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04): U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 10/714,079A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1	Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2	Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3	Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4	Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5	Variable Length	Sequence(s)____contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6	PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7	Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences
8	Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence <210> sequence id number <400> sequence id number 000
9	Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10	Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species) <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11	Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 07/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
12	PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13	Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid

IFWO

RAW SEQUENCE LISTING DATE: 07/15/2004
PATENT APPLICATION: **US/10/714,079A** TIME: 10:23:06

Input Set : **A:\ABXAE1Con.APP**
Output Set: **N:\CRF4\07152004\J714079A.raw**

<110> APPLICANT: PIROFSKI, LIISE-ANNE
ZHONG, ZHAOJING
CHANG, QING
<120> TITLE OF INVENTION: HUMAN ANTIPNEUMOCOCCAL ANTIBODIES FROM NON-HUMAN ANIMALS
<130> FILE REFERENCE: ABX-AE/1CON
<140> CURRENT APPLICATION NUMBER: 10/714,079A
<141> CURRENT FILING DATE: 2003-11-14
<150> PRIOR APPLICATION NUMBER: PCT/US02/18363
<151> PRIOR FILING DATE: 2002-05-16
<150> PRIOR APPLICATION NUMBER: 60/291,492
<151> PRIOR FILING DATE: 2001-05-16
<160> NUMBER OF SEQ ID NOS: 21
<170> SOFTWARE: PatentIn Ver. 2.1
<210> SEQ ID NO: 1
<211> LENGTH: 462
<212> TYPE: DNA
<213> ORGANISM: Homo sapiens
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gcagcctctg gattcacctt tagcagctat gccatgagct gggtccgcca ggctccaggg 180
aaggggctgg agtgggtctc agctattagt ggtagtggtg gtagcacata ctacgcagac 240
tccgtgaagg gccggttcac catctccaga gacaattcca agaacacgct gtatctgcaa 300
atgaacagcc tgagagccga ggacacggcc gtatattact gtgcgaaagc ccctcctaac 360
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tccgccccaa ccctttccc cctcgtctcc tgtgagaatt cc 462
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atctcctgca ggtctagtca aagcctcgta tacagtgatg gaaacaccta cttgaattgg 120
tttcagcaga ggccaggcca atctccaagg cgcctaattt ataaggtttc taactgggac 180
tctggggtcc cagacagatt cagcggcagt gggtcaggca ctgatttcac actgaaaatc 240
agcagggtgg aggctgagga tgttggggtt tattactgca tgcaaggtac acactggcct 300
cggacgttcg gccaagggac caaggtggaa atcaaacgaa ctgtggctgc accatctgtc 360
ttcatcttcc cgccatctga tgagcagttg aaatctggaa ctgcctctgt tgtgtgcctg 420
ctgaataact tctatcccag agaggccaaa gtacagtgga aggtggataa cgccctccaa 480
tcgggtaact cccaggagag tgtcacagag caggacagca aggacagcac ctacagcctc 540
agcagcaccc tgacgctgag caaagcagac tacgagaaac acaaagtcta cgcctgcgaa 600
gtcacccatc agggcctgag ctcgcccgtc acaaagagct tcaacagg 648

Does Not Comply
Corrected Diskette Needed
(pg. 3)

RAW SEQUENCE LISTING DATE: 07/15/2004
PATENT APPLICATION: **US/10/714,079A** TIME: 10:23:06

Input Set : **A:\ABXAE1Con.APP**
Output Set: **N:\CRF4\07152004\J714079A.raw**

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<213> ORGANISM: Homo sapiens
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caactggtgg agtctggggg aggcgtggtc cagcctggga ggtccctgag actctcctgt 120
gcagcgtctg gattcacctt cagtagctat ggcatgcact gggtccgcca ggctccaggc 180
aaggggctgg agtgggtggc agttatatgg tatgatggaa gtaataaata ctatgcagac 240
tccgtgaagg gccgattcac catctccaga gacaattcca agaacacgct gtatctgcaa 300
atgaacagcc tgagagccga ggacacggct gtgtattact gtgcgagaga tcgggagtgg 360
ctgaggtact actactacgg tatggacgtc tggggccaag ggaccacggt caccgtctcc 420
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<210> SEQ ID NO: 4
<211> LENGTH: 632
<212> TYPE: DNA
<213> ORGANISM: Homo sapiens
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tcacttgtcg ggcgagtcag ggtattagca gctggttagc ctggtatcag cagaaaccag 120
ggaaagcccc taagctcctg atctatgttg catcccgttt gcaaagtggg gtcccatcaa 180
ggttcagcgg cagtggatct gggacagatt tcactctcac catcagcagc ctgcagcctg 240
aagattttgc aacttactat tgtcaacagg ctaacagttt ccctcggacg ttcggccaag 300
ggaccaaggt ggaaatcaaa cgaactgtgg ctgcaccatc tgtcttcatc ttcccgccat 360
ctgatgagca gttgaaatct ggaactgcct ctgttgtgtg cctgctgaat aacttctatc 420
ccagagaggc caaagtacag tggaaggtgg ataacgccct ccaatcgggt aactcccagg 480
agagtgtcac agagcaggac agcaaggaca gcacctacag cctcagcagc accctgacgc 540
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<211> LENGTH: 468
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cagctggtgg agtctggggg aggcttggta aagcctgggg ggtcccttag actctcctgt 120
gcagcctctg gattcacttt cagtaacgcc tggatgagct gggtccgcca ggctccaggg 180
aaggggctgg agtgggttgg ccgtattaaa agcaaaactg atggtgggac aacagactac 240
gctgcacccg tgaaaggcag attcaccatc tcaagagatg attcaaaaaa cacgctgtat 300
ctgcaaatga acagcctgaa aaccgaggac acagccgtgt attactgtac cacaagctgg 360
aactacaggt actactttga ctactggggc cagggaaccc tggtcaccgt ctcctcaggg 420
agtgcatccg ccccaaccct ttcccccctc gtctcctgtg agaattcc 468
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<212> TYPE: DNA
<213> ORGANISM: Homo sapiens
<400> SEQUENCE: 6
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atcacctgcc gggccagtca gagcattggt agtagcttac actggtacca gcagaaacca 120

RAW SEQUENCE LISTING DATE: 07/15/2004
PATENT APPLICATION: **US/10/714,079A** TIME: 10:23:06

Input Set : **A:\ABXAE1Con.APP**
Output Set: **N:\CRF4\07152004\J714079A.raw**

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119 gatcagtctc caaagctcct catcaagtat gcttcccagt ccttctcagg ggtcccctcg 180
120 aggttcagtg gcagtggatc tgggacagat ttcaccctca ccatcaatag cctggaagct 240
121 gaagatgctg caacgtatta ctgtcatcag agtagtagtt tacctcggac gttcggccaa 300
122 gggaccaagg tggaaatcaa acgaactgtg gctgcaccat ctgtcttcat cttcccgcca 360
123 tctgatgagc agttgaaatc tggaactgcc tctgttgtgt gcctgctgaa taacttctat 420
124 cccagagagg ccaaagtaca gtggaaggtg gataacgccc tccaatcggg taactcccag 480
125 gagagtgtca cagagcagga cagcaaggac agcacctaca gcctcagcag caccctgacg 540
126 ctgagcaaag cagactacga gaaacacaaa gtctacgcct gcgaagtcac ccatcagggc 600
127 ctgagctcgc ccgtcacaaa gagcttcaac agg                              633
130 <210> SEQ ID NO: 7
131 <211> LENGTH: 471
132 <212> TYPE: DNA
133 <213> ORGANISM: Homo sapiens
135 <400> SEQUENCE: 7
136 gagtttgggc tgagctggat tttccttgct gctattttaa aaggtgtcca gtgtgaggtg 60
137 cagctggtgg agtctggggg aggcttggta aagcctgggg ggtcccttag actctcctgt 120
138 gcagcctctg gattcacttt cagtaacgcc tggatgagct gggtccgcca ggctccaggg 180
139 aaggggctgg agtgggttgg ccgtattaaa agcaaaactg atggtgggac aacagactac 240
140 gctgcacccg tgaaaggcag attcaccatc tcaagagatg attcaaaaaa cacgctgtat 300
141 ctgcaaatga acagcctgaa aaccgaggac acagccgtgt attactgtac gaaacatagt 360
142 gggagctact acggatactt ccagcactgg ggccagggca ccctggtcac cgtctcctca 420
143 gggagtgcat ccgccccaac ccttttcccc ctcgtctcct gtgagaattc c           471
146 <210> SEQ ID NO: 8
147 <211> LENGTH: 649
148 <212> TYPE: DNA
149 <213> ORGANISM: Homo sapiens
151 <220> FEATURE:
152 <221> NAME/KEY: modified_base
153 <222> LOCATION: (495)
154 <223> OTHER INFORMATION: a, t, c, g, other or unknown
156 <220> FEATURE:
157 <221> NAME/KEY: modified_base
158 <222> LOCATION: (513)
159 <223> OTHER INFORMATION: a, t, c, g, other or unknown
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163 atctcctgca ggtctagtca gagcctcctg catagtaatg gatacaacta tttggattgg 120
164 tacctgcaga agccagggca gtctccacag ctcctgatct atttgggttc taatcgggcc 180
165 tccggggtcc ctgacaggtt cagtggcagt ggatcaggca cagattttac actgaaaatc 240
166 agcagagtgg aggctgagga tgttggggtt tattactgca tgcaagctct acaaactcct 300
167 cggacgttcg gccaagggac caaggtggaa atcaaacgaa ctgtggctgc accatctgtc 360
168 ttcatcttcc cgccatctga tgagcagttg aaatctggaa ctgcctctgt tgtgtgcctg 420
W--> 169 ctgaataact tctatcccag agaggccaaa gtacagtgga aggtggataa cgccctccaa 480
W--> 170 tcgggtaact cccangagag tgtcacagag cangacagca aagacagcac ctacagcctc 540
171 agcagcaccc tgacgctgag caaagcagac tacgagaaac acaaagtcta cgcctgcgaa 600
172 gtcacccatc aaggcctgag ctcgcccgtc acaaagagct tcaacagga              649
175 <210> SEQ ID NO: 9
176 <211> LENGTH: 11
177 <212> TYPE: PRT
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462?

pls see item # 9 on error summary sheet.

pls explain "N" location.

RAW SEQUENCE LISTING DATE: 07/15/2004
PATENT APPLICATION: US/10/714,079A TIME: 10:23:06

Input Set : A:\ABXAE1Con.APP
Output Set: N:\CRF4\07152004\J714079A.raw

178 <213> ORGANISM: Homo sapiens
180 <400> SEQUENCE: 9
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182 1 5 10
185 <210> SEQ ID NO: 10
186 <211> LENGTH: 12
187 <212> TYPE: PRT
188 <213> ORGANISM: Homo sapiens
190 <400> SEQUENCE: 10
191 Lys His Ser Gly Ser Tyr Tyr Gly Tyr Phe Gln His
192 1 5 10
195 <210> SEQ ID NO: 11
196 <211> LENGTH: 11
197 <212> TYPE: PRT
198 <213> ORGANISM: Homo sapiens
200 <400> SEQUENCE: 11
201 Thr Ser Trp Asn Tyr Arg Tyr Tyr Phe Asp Tyr
202 1 5 10
205 <210> SEQ ID NO: 12
206 <211> LENGTH: 15
207 <212> TYPE: PRT
208 <213> ORGANISM: Homo sapiens
210 <400> SEQUENCE: 12
211 Arg Asp Arg Glu Trp Leu Arg Tyr Tyr Tyr Tyr Gly Met Asp Val
212 1 5 10 15
215 <210> SEQ ID NO: 13
216 <211> LENGTH: 9
217 <212> TYPE: PRT
218 <213> ORGANISM: Homo sapiens
220 <400> SEQUENCE: 13
221 Met Gln Gly Thr His Trp Pro Arg Thr
222 1 5
225 <210> SEQ ID NO: 14
226 <211> LENGTH: 7
227 <212> TYPE: PRT
228 <213> ORGANISM: Homo sapiens
230 <400> SEQUENCE: 14
231 Met Ala Leu Gln Thr Arg Thr
232 1 5
235 <210> SEQ ID NO: 15
236 <211> LENGTH: 7
237 <212> TYPE: PRT
238 <213> ORGANISM: Homo sapiens
240 <400> SEQUENCE: 15
241 His Ser Ser Ser Leu Arg Thr
242 1 5
245 <210> SEQ ID NO: 16
246 <211> LENGTH: 7
247 <212> TYPE: PRT

RAW SEQUENCE LISTING DATE: 07/15/2004
PATENT APPLICATION: US/10/714,079A TIME: 10:23:06

Input Set : A:\ABXAE1Con.APP
Output Set: N:\CRF4\07152004\J714079A.raw

<213> ORGANISM: Homo sapiens
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Gln Ala Asn Ser Phe Arg Thr
1 5
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<212> TYPE: PRT
<213> ORGANISM: Homo sapiens
<400> SEQUENCE: 17
Val Ala Ser Arg Leu Gln Ser
1 5
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<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
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gagtttgggc tgagctgg 18
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ggaattctca caggagacga g 21
<210> SEQ ID NO: 20
<211> LENGTH: 24
<212> TYPE: DNA
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<220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence: Primer
<400> SEQUENCE: 20
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<211> LENGTH: 21
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence: Primer
<400> SEQUENCE: 21
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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/15/2004
PATENT APPLICATION: **US/10/714,079A** TIME: 10:23:07

Input Set : **A:\ABXAE1Con.APP**
Output Set: **N:\CRF4\07152004\J714079A.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:8; N Pos. 462,495,513

VERIFICATION SUMMARY DATE: 07/15/2004
PATENT APPLICATION: **US/10/714,079A** TIME: 10:23:07

Input Set : **A:\ABXAE1Con.APP**
Output Set: **N:\CRF4\07152004\J714079A.raw**

L:169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:420
L:170 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:480